

# TiN Coating of a MI Beam Pipe

U. Wienands, D. Wright, M. Robertson,  
D. Shelley and K. Fant

SLAC

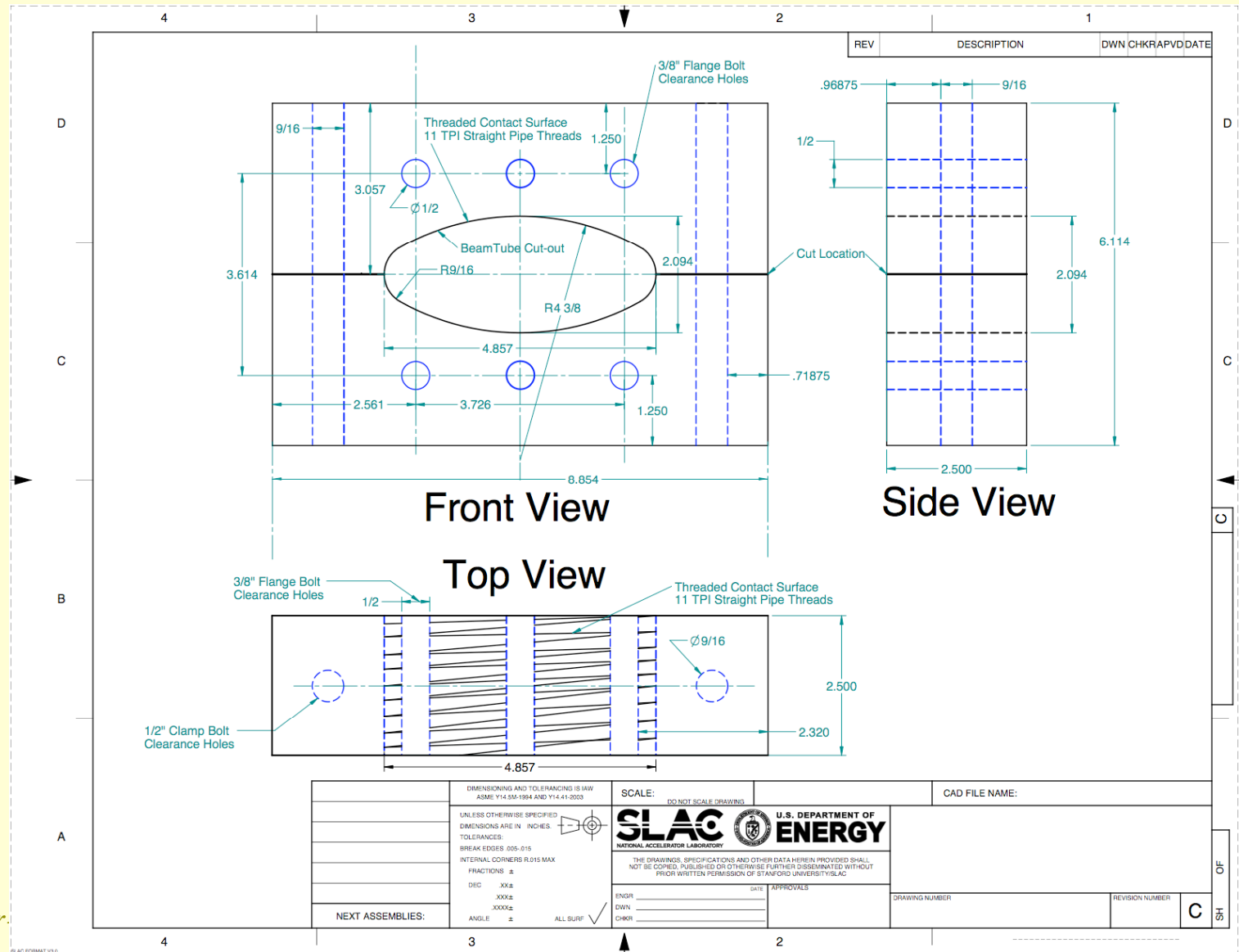
# Steps

- Establish scope
  - Done. SLAC will develop process coating one pipe
  - Defer some details assoc. with pipe curvature
- Establish MPO for funding work
  - Done. Took several months!
- Build hardware
  - In process
- Setup hardware
- Coating away!

# Hardware

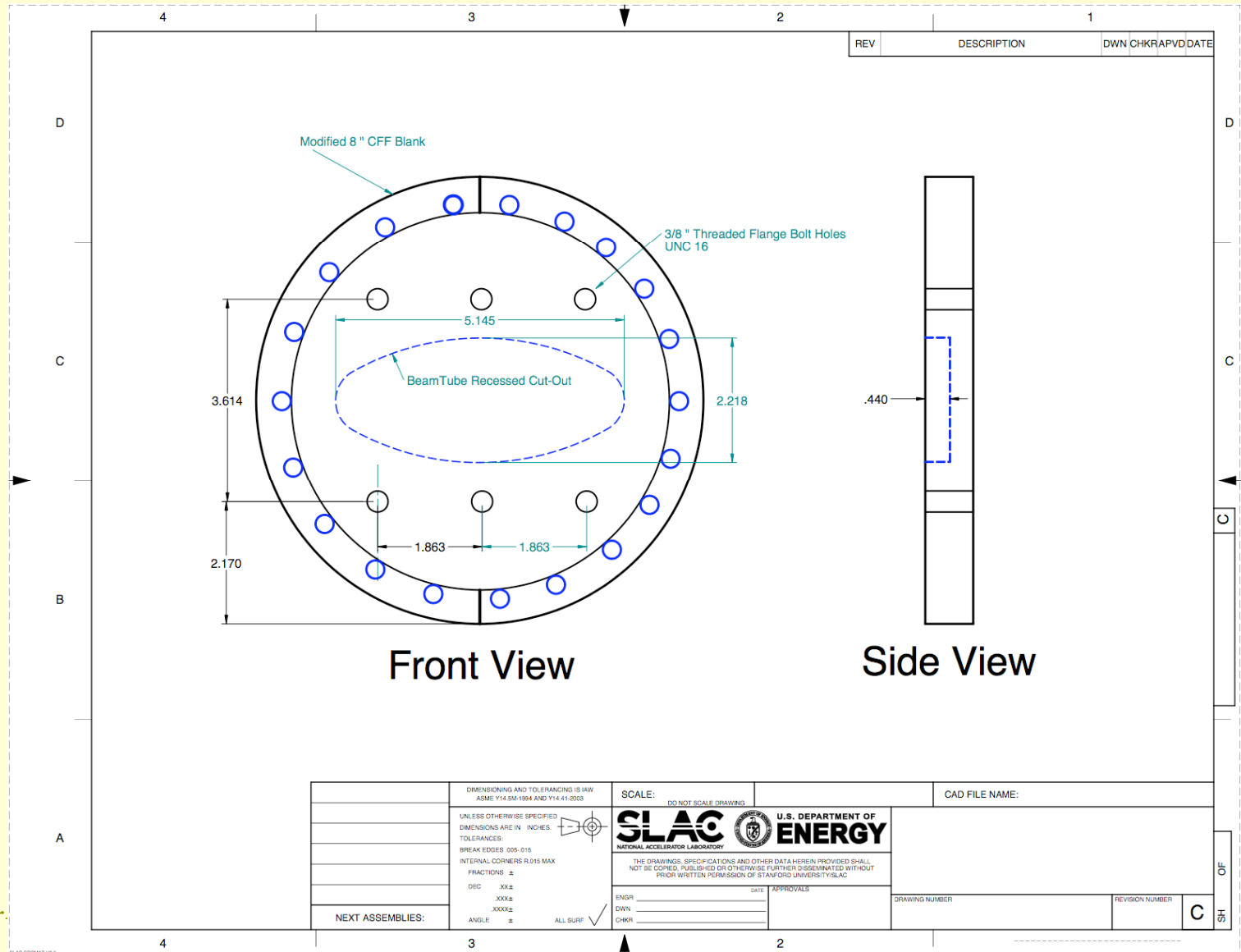
- For our setup we need
  - End flanges for pipe, mounted using clamp
  - Supports & spacers for the electrodes
  - The electrodes
  - Pump cart
  - Power supply (5 kV, 2 A)
  - Space for 2×6 m so we can insert the electrode.

# Clamp (to hold flange)



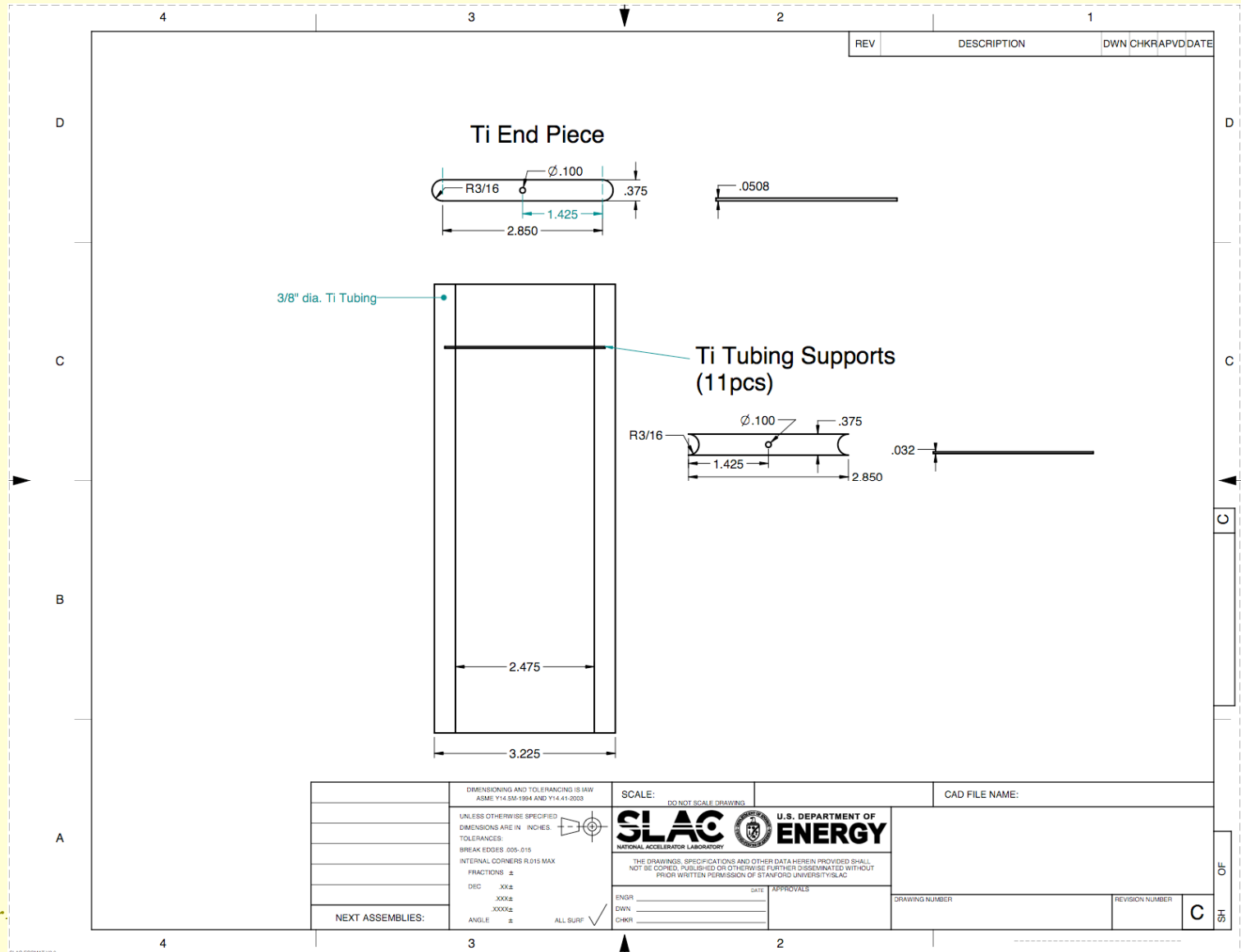


## Flange w/o Window



*U. Wienands, SLAC*  
*SuperB MiniMAC, 24-Apr.*

# Ti Electrodes



U. Wienands, SLAC  
SuperB MiniMAC, 24-Apr-

# Time Line

- September: fabricate parts
- Early October: setup apparatus, pump/lkcheck
- mid-late October: begin coating